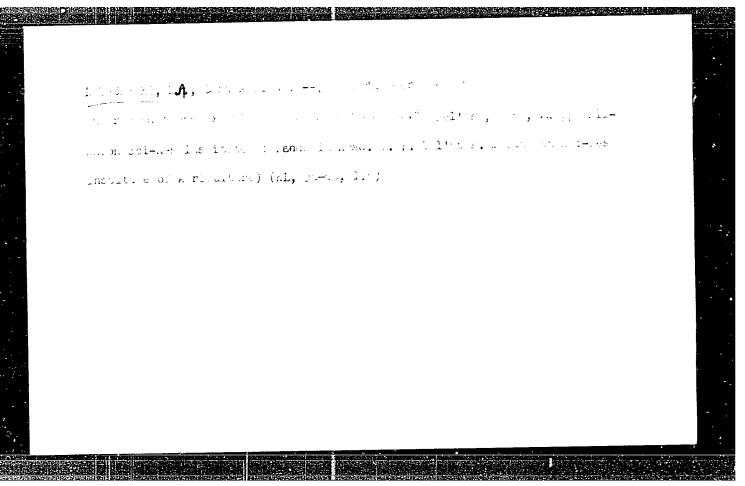


LYUBCHENKO, M. A., KIRNITSKIY, B. T.

Grasses

Summer sowings of alfalfa and grass mixtures under cover in the Moldavian S. S. R., Sov. agron. 10 No. 5, 1952.

Monthly List of Russian Accessions, Library of Congress, July, 1952. Unclassified.



LYUBCHENKO, N.; NIKONOV, M.; BELYY, M.; YAKOBSON, V., inzh.po
ratsionalizatsii; KUZ'MICHEV, M., inzh.; ROBUSTOV, A., inzh.

From letters. Izobr.i rats. no.10:33-34 0 '59.
(MIRA 13:2)

1. Instruktor TSentral'nogo komiteta profsoyuza rabochikh stroitel'stva i promstroymaterialov Sverdlovskogo sovnarkhoza (for Nikonov). 2. Predsedatel' soveta Vsesoyuznogo obshchestva izobretateley i ratsionalizatorov Saratovskogo industrial'nogo izobretateley i ratsionalizatorov Saratovskogo industrial'nogo tekhnikuma (for Belyy). 3. Dolinskiy tsellyulozno-bumazhnyy kombinat, g.Dolinsk, Sakhalinskoy oblasti (for Yakobson).
4. Proizvodstvenno-tekhnicheskiy otdel sovnarkhoza g.Dnepropetrovsk (for Kuz'michev, Robustov).

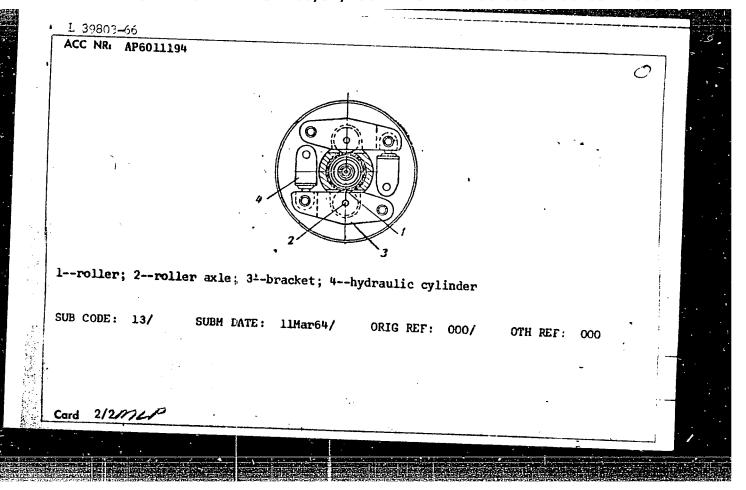
(Shanghai--Technological innovations)

KULIYEV, Al.M.; KOLYSHKIN, D.A.; LYUBCHENKO, N.G.; ALEKPEROV, G.Z.;
GRIGORYAN, E.V.; ABDULLAYEVA, S.M.

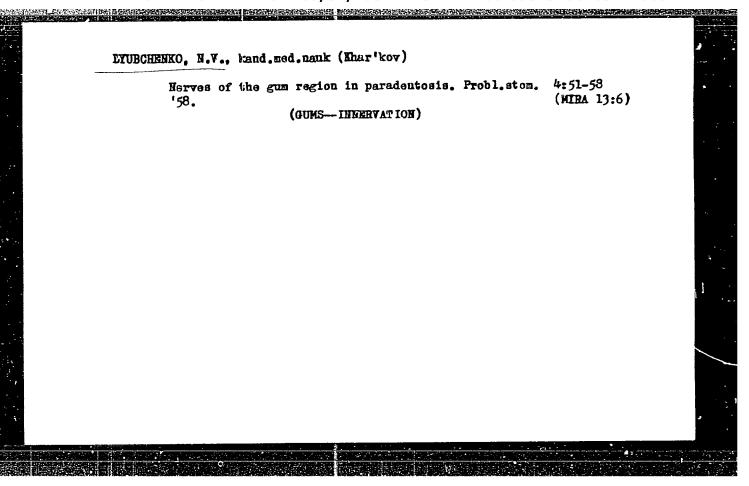
Studying the strength of highly activated coals. Azerb. neft.
khoz. 41 no.12:37-38 D '62. (MIRA 16:7)

(Coal—Testing)
(Gases—Absorption and adsorption)

(())/1/mm(t))/ miking dist ENT(d)/=#[(mi) SOURCE CODE: UR/0413/66/000/006/0018/0019 ACC NR: AP6011194 INVENTOR: Vasilenko, V. I.; Goshin, S. A.; Lyubchenko, N. I.; Hiroshnichenko, S. Ye. تشطح ORG: none TITLE: A pipe rolling installation. Class 7, No. 179736 SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 6, 1966, 18-19 TOPIC TAGS: pipe, rolling mill ABSTRACT: This Author's Certificate introduces: 1. An installation for rolling pipes using revolving rollers mounted in a yoke which rotates around the pipe. The productivity of the installation is increased by placing the roller axle in brackets which are turned by hydraulic cylinders, and by putting the yoke in a rotating head equipped with a hydromechanical drive. 2. A modification of this installation with a rotating head mounted at each end of the pipe for simultaneous finishing. UDC: 621.774.77 Card 1/2



APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001031210002-1"



LIUBCHENKO, N.V., kand. med. nauk (Ehar'kov); LESCVAYA, N.D., kand. med.
nauk (Khar'kov)

Nerves of the gun region in ginglvitis. Probl. stom. 4:59-64

'58. (GUNS--INNERVATION)

(GUNS--INNERVATION)

Research data on the innervation of human gums. Probl. stom. 5:
372-375 '50. (Mi.A 15:2)

1. Khar'kovskiy meditsinskiy stomatologicheskiy institut. (GUMS__INNERVATION)

GOL'DOVA, T.G. (Khar'kov); LYUECHENKO, N.V. (Khar'kov)

Pathologic states of the paradentium in cats. Probl.stom. 6:2528 '62.
(MIRA 16:3)

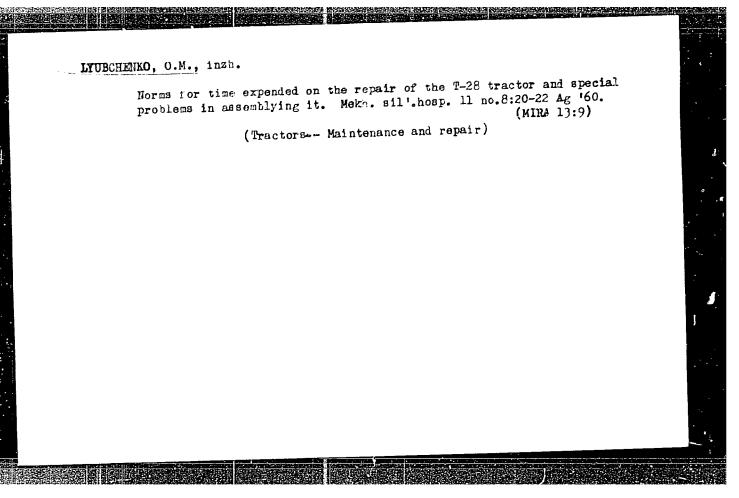
(GUMS—DISKASES) (CATS—DISEASES AND PESTS)

LYUECHENKO, O.M. [Liubchenko, O.M.], inzh.

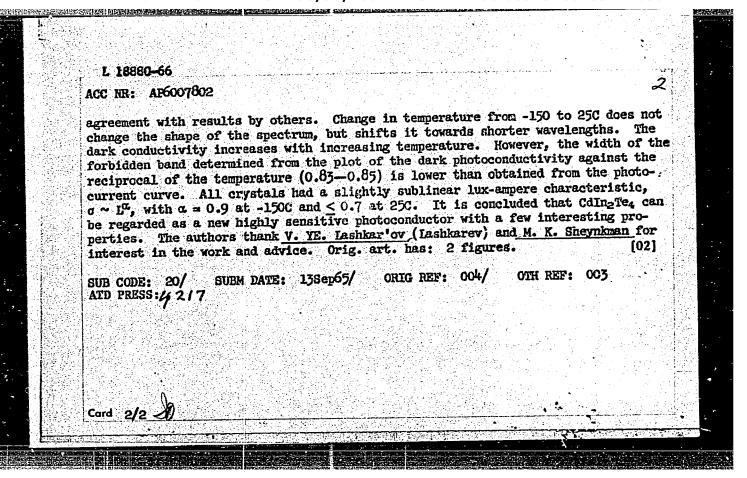
Technical specifications and heurly costs of disassembling and assembling DT-24 tractors. Mekh. sil'. hosp. 10 no.3:29-30 Mr '59. (MIRA 12:6)

1.Gosudarstvennyy soyuznyy nauchno-issledovatel'skiy technologicheskiy institut.

(Tractors--Maintenance and repair)



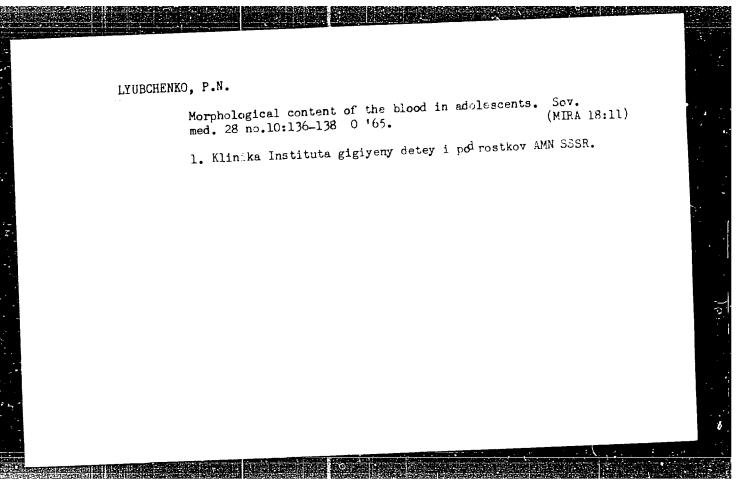
EWT(1)/EWT(m)/EWP(t) AT/JD L 18880-66 LJP(c) ACC NR: AP6007802 SOURCE CODE: UR/0185/66/011/002/0219/0221 AUTHOR: Bilyayev, O. M.; Lyubchenko, O. V.; Potykevych, I. V. ORG: Institute of Semiconductors, AN URSR. Kiev (Instytut napivprovidnykiv AN 65 URSR) 21, 44, 55 TITLE: New high-sensitivity photoconductor CdIngTe4 27 SOURCE: Ukrayins'kyy fizychnyy zhurnal, v. 11, 70. 2, 1966, 219-221 TOPIC TAGS: photoconductivity, cadmium compound, optic transmission, forbidden band, electric conductivity, temperature dependence ABSTRACT: Although CdIn2Te4 has been synthesized and its semiconductor properties discovered some time ago, no measurements of its photoelectric properties have been made before. The authors synthesized six n-type single crystals of this substance, measuring 1 x 1 x 0.5 nm, by a procedure described elsewhere (Tezisy dokladov 3-go soveshchaniya po rostu kristallov [Abstracts of Papers of the 3rd Conference on Crystal Growth], Moscow, AN SSSR, 1963, p. 58). The transmission and photoconductivity spectrum were measured with a monochromator (IKS-12). The photocurrent shows a maximum near $1.04-1.06~\mu$, and decreases much more slowly in the short-wave side than in the long-wave side. The width of the forbidden band, as determined from the drop in photosensitivity at the long-wave edge is 1.09-1.12 ev, is in Card 1/2

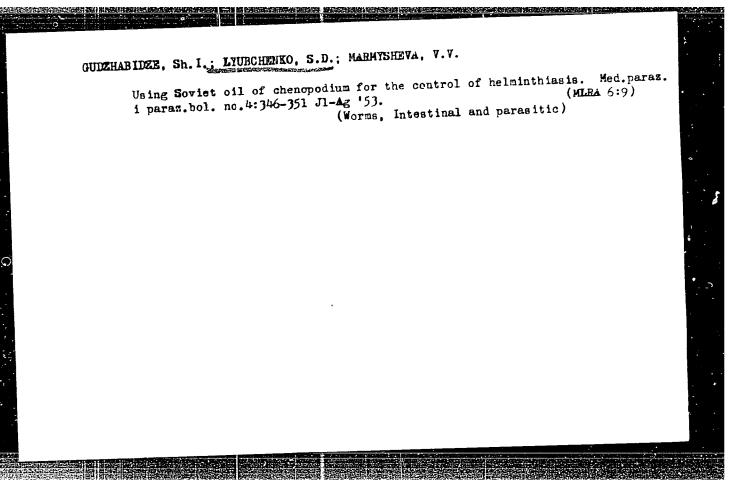


ENT(L)/ENT(m)/ETC(f)/ENG(m)/T/ENP(t) ACC NR: AF6007803 SOURCE CODE: UR/0185/66/011/002/0221/0224 AUTHOR: Tashkar'ov. V. Ye.; Sheynkman, M. K.; Lyubchenko, O. V.; Gorodets'kyy, I. Ya.; Yermolovych, I. B. ORG: Institute of Semiconductors AN UkrSSR, Kiev (Instytut napivproviduykiv AN URSR) 21, 44, 55 TITLE: Determination of the parameters of "sensitizing" recombination centers in CdS and CdSe single crystals 4 SOURCE: Ukrayins kyy fizychnyy zhurnel, v. 11, no. 2, 1966, 221-224 TOPIC TAGS: color center, cadmium sulfide, cedmium selenide, single crystal, electron recombination, capture cross section, valence band, ir light ABSTRACT: Continuing earlier investigations of the kinetics of relaxation of photocurrent in CdS and CdSe single crystals (FTT v. 7, 1717, 1965 and earlier papers), the authors consider in this paper new stationary and kinetic methods of determining hitherto undetermined parameters (the capture coefficient (Cr) of holes by type II centers, and their energy levels (Eyr) reckoned from the top of the valence band), as well as new methods of determining the cross section for the capture of a quenching infrared photon. The new methods are based on the use of stationary Card 1/2

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ACC NR: AP6007	/803			0
exciting illumi	ination in conjunction	with pulses of exci-	ing or quenching	ir light.
The theory under	erlying the methods is th-resistance undoped C	briefly described.	The methods were ervstals. The tes	testea ts showed
the presence in	n CdS of two types of r	ecombination center	s, with c., ~ (5>) x 10
cm3/sec and R_	r = 1.0 ev for the firs the second. Tests made	t. and $C_m \approx (25)$	k 10 - cm3/sec an	O Lyr
tical results.	Orig. art. has: 2 fi	gures, 5 formulas,	and 1 table.	[02]
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的"Proceeding and Conference"。				
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APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001031210002-1"





GUDZHABIDZE, Sh.I.; LYUBCHENKO, S.D.

Role of composting of organic wastes in the control of ankylostomiasis and ascariasis. Med.paraz.i paraz.bol. 37 no.5:576-578 (MIRA 13:5)

S-O *59.

1. Iz parazitologicheskogo otdeleniya Gudautskoy ob*yedinennoy bol'nitsy (glavnyy vrach M.B. Guniya).

(HOOKAOREN INFECTION prev. & control)

(ASCARIASIS prev. & control)

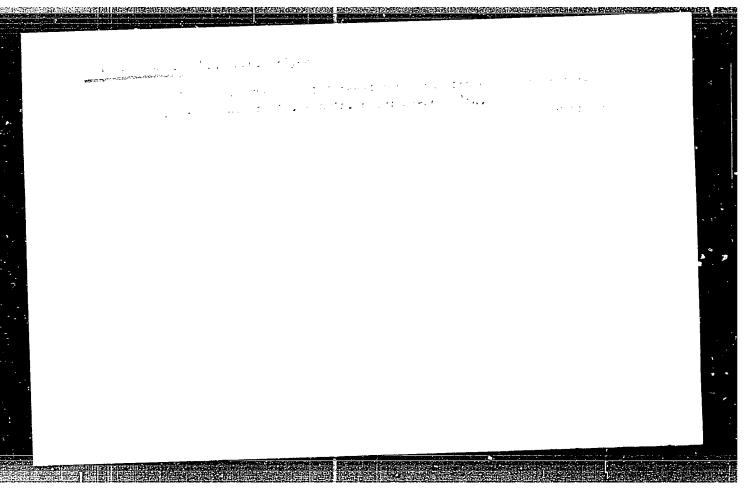
(REFUSE DISPOSAL)

POLANTSKAYA, A.A.; LYUBCHENKO, S.D.; GRUDZINO, S.F.

Observations on the development and vitality of the eggs and larvae of Necator under the conditions in the various regions of the Georgian S.S.R. Med.paraz.i paraz.bol. no.1:91-95 '62. (MRA 15:5)

1. Iz Nauchno-issledovatel'skogo instituta meditsinskoy parazitologii i tropicheskoy meditsiny imeni S.3. Virsaladze Ministerstva zdravockhraneniya Gruzinskoy SSR (dir. instituta I.I. Topuriya, rukovoditel' gel'mintologicheskogo otdeleniya - prof. G.N. Gordadze). (GEORGIA--HOOKWORMS)

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001031210002-1"



KAGANSKIY, I&M.; KARAVAYEV, M.M.; SUKACHEV, B.P.; LYUECHENKO, T.V.

Pressure of saturated vapors over highly concentrated furing nitric acid. Zhur. prikl. khim. 34 no.5:1687-1092 My '61.

(MIRA 16:8)

1. Lisichanskiy filial Gosudarstvennogo nauchno-issledovatel'skogo i projektnogo instituta azotnoy promyshlennosti i produktov organicheskogo sinteza.

(Vapor pressure) (Nitric acid)

LYUBCHENHO, K.

AID P - - .

: USSR/Aeronautics Subject

Pub. 135, 15/18 Card 1/1

: Lobanov, A., Lt. Col. Eng., and Lyubchenko, V. SenLt., Eng. Author

: Radio location distrubances and the fight against Title

(According to the foreign press)

Periodical: Vest. vozd. flota, 8, 71-79, Ag 1954

: The author gives a general explanation of the problem and Abstract

then considers in some detail: 1) static distrubances, 2) active distrubances, and 3) the fight against radio

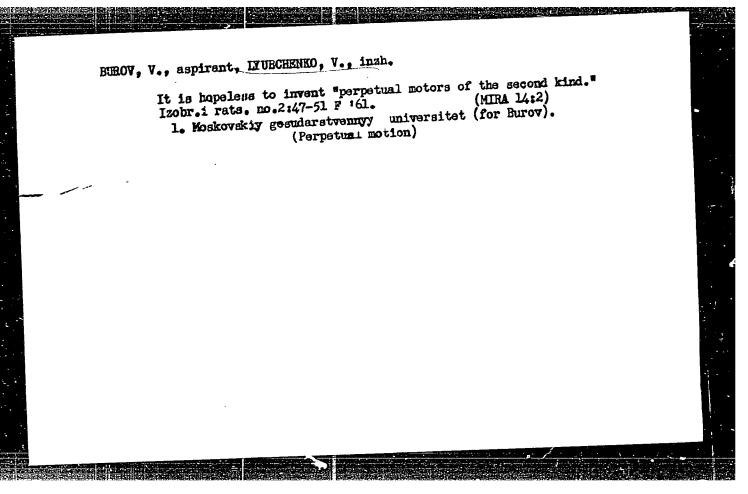
location disturbances. Diagrams.

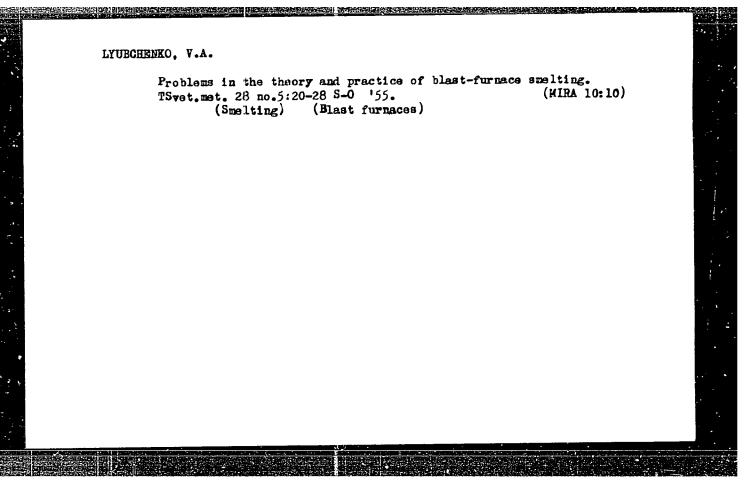
Institution: None

Submitted : No date

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001031210002-1"

	LYUBCHENKO	
	Arctic shipping. Mor.flot 19 no.10:17-18 0 '59. (MIRA 13:2)	
• >	1. Kapitan-nastavnik Dal'nevostochnogo parokhodstva.	
**	(Arctic regionsShipping)	* A
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SOV/122-58-6-11/37

AUTHORS: Lyubchenko, V.A. and Loshak, M.Z., Engineers

TITLE: Two-stage Pump of Recent Design (Dvukhstupenchatyy nasos

novoy konstrukstii)

PERIODICAL: Vestnik Mashinostroyeniya, 1958, Nr 6, p 33 (USSR)

ABSTRACT: A new, two-stage pump, developed by the "Gidroprivod"

Works in Kharkov, is described with the help of a cross-sectional drawing. The pump consists of: 1) a gear pump stage developing a pressure of up to 20 kg/cm², at a delivery of 100 litres/min; 2) a superimposed swash-plate-type plunger pump, developing up to 320 kg/cm² at

a delivery of 8 litres/min. The pump, designated N-476-202, has a maximum speed of 1 460 rpm and works with industrial mineral oils in the temperature range between 10 and 45 °C.

There is 1 figure.

Card 1/1 1. Pumps--Design

S/120/62/000/005/034/036 E194/E535

AUTHORS:

Glazkov, N.P. and Lyubchenko, V.F.

TITLE:

Equipment for filling chambers with He

PERIODICAL: Pribory i tekhnika eksperimenta, no.5, 1962, 192-193

A simple mercury pump has been designed so that TEXT: apparatus such as ionization chambers can be filled with He^3 at a pressure of 50 atm. Mercury is transferred from one cylinder to another either by gravity assisted with a vacuum pump or by applying industrial argon at a pressure of 100 atm. In this way He is first transferred from a storage vessel to the upper cylinder and then from thence to the apparatus to be filled. The cycle is repeated until the necessary pressure has been built up. The entire equipment is made of stainless steel, it is controlled by needle valves in which combined teflon and rubber glands prevent leakage at pressures up to 150 atm. Sight glasses are provided to observe the mercury level. Cold traps may be fitted to purify the He3. The equipment was tested by filling an ionization chamber with a volume of 30 ml to a pressure of 50 atm He and the gas purity was observed. There is I figure. SUBMITTED: Card 1/1 January 8, 1962

AUTHORS:

Spivak, G. V., Lyubchenko, V. I.

SOV/48-23-6-8/28

TITLE:

On the Resolving Power of Immersion Objectives in the Presence of Electric and Magnetic Microfields (O razreshayushchey sposobnosti immersionnogo ob"yektiva pri nalichii elektricheskikh i

magnitnykh mikropoley na katode)

PERIODICAL: Izvestiya Akademii nauk SSSR. Seriya fizicheskaya, 1959, Vol 23, Nr 6, pp 697 - 705 (USSR)

ABSTRACT:

In the introduction, short reference is made to papers in which the domains of ferromagnetics and ferroelectrics are investigated, and the structure of electric and magnetic microfields is investigated. The fields behave like microlenses, nodulate the electrons passing through, and make it possible to investigate the microstructure. When emission systems are used for the investigation of emission center distribution on the cathode surface, the microlenses of the cathode produce a "pseudocontrast" in the image of the emission. In the second part of the present paper the influence exercised by the macrolenses upon the contrast range of the microlenses is investigated. The equations of motion of the electrons in the magnetic and electric fields

Card 1/3

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serve as a basis and solutions are found for the position

. On the Resolving Power of Immersion Objectives in the SOV/48-23-6-8/28 Presence of Electric and Magnetic Microfields

coordinates of the electrons. The results obtained are qualitatively given in a table for various combinations of macrolenses. When dealing with the resolving power of immersion objectives without microlenses on the cathode, the paper by Artsimovich (Ref 7) is mentioned among others. In these papers the resolving power of emission systems with larger aperture had been investigated. Moreover, resolving power was investigated in the case of the use of mechanical diaphragms. Much space is given to the treatment of the enlargement of photooptical immersion objectives and to the irising of the electron beam by magnetic fields acting on the cathode. Formula (18) is developed for the resolving power. In the last part of the paper, calculation of the resolving power of immersion objectives according to the method of the "sighting hit" is dealt with. Again, the equations of motion serve as a basis, and if $E_{x} = H_{z} = 0$, a formula for the resolving power is obtained. Next, the influence exercised by the electric microfields is investigated, and for the deterioration of resolving power, formula (24) is given. In conclusion, the enlargement of photo-

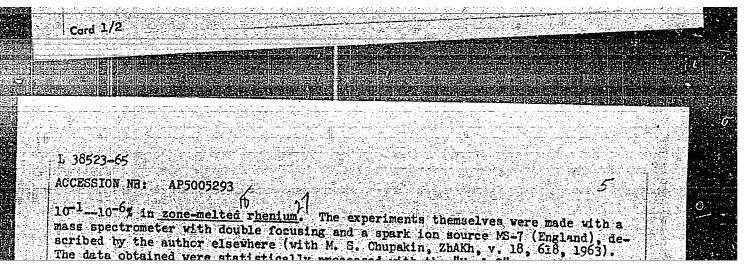
Card 2/3

On the Resolving Power of Immersion Objectives in the SOV/48-23-6-8/28 Presence of Electric and Magnetic Microfields

optical objectives and irising by magnetic fields is investigated in the same manner. There are 1 table and 22 references, 11 of which are Soviet.

ASSOCIATION: Fizicheskiy fakul'tet Moskovskogo gos. universiteta im. M. V. Lomonosova (Physics Department of the Moscow State University imeni M. V. Lomonosov)

Card 3/3



DOLKART, V.M. [translator]; NOVIK, G.Kh. [translator]; LYUBCHENKO, V.K. red.; NIKULIN, S.M. red.; VOLKOVA, I.M., red.; SMUROV, B.V., tekhn. red.

[Use of transistor and magnetic elements in electronic digital computers] Primenenie tranzistornykh i magnitnykh elementov v tsifrovykh vychislitel'nykh masninakh; sbornik statei. Pod red. V.K.Liubchenko i S.M.Nikulina. Moskva, Izd-vo "Sovetskoe radio," 1960. 228 p. (MIRA 14:10)

LYUBCHENKO, V.M. (g. Pushkino)

Catalase activity in seeds of Filia cordata Hill. and Euonymus
europaea L. during stratification. Bot. zhur. 44 no.4z522-524
(MIRA 12:10)
Ap 159.

(Plants, Effect of temperature on) (Seeds) (Catalase)

LYUBCHENKO, V.M., Cand Agr Sci -- (diss) "Biological characteristics of germination and methods of pre-sowing preparation seeds of fine-leaved linden and European spindle trees." Kiev, 1960. 18 pp with graphs; (Ministry of Agriculture Ukrainian SSR, Ukrainian Academy of Agricultural Sciences); 200 copies; price not given; (KL, 17-60, 163)

DYUBCHENKO, V.M.

Germination of embroyos in the linden tree and spindle tree with reference to afterripening. Bot.zhur. 45 no.1:144-148

Ja '60. (MIRA 13:5)

1. Botanicheskiy institut im. V.L.Komarova Akademii nauk SSSR, Leningrad.

(Germination) (Linden) (Spindle tree)

LYUBCHENKO, V.M. Effect of negative temperatures on the preparation of dormant seeds for germination and on their viability. Dokl. AN BSSR 5 no. 2:86-88 F '61. (MIRA 14:2) 1. Belorusskiy nauchno-issledovatel'skiy institut lesnogo khozyaystva, g.Gcmel'. Predstavleno akademikom AN BSSR N.D. Nesterovichem. (Cold—Physiological effect) (Germination)

IXUBCHENKO, Vyacheslav Maksimovich; BARKAN, V.A., red.; YEFMILOV, V.M., tekhn. red.

[Methods of storing and treating seeds of tree and shrub species before planting] Metody predposevnoi podgotovki i khraneniia semian drevesnyk: i kustarnikovykh porod. Minsk, Cos. izd-vo sal'khoz.lit-ry BSSF, 1962. 58 p. (MIRA 15:6)

(Seeda) (Tree:) (Shrubs)

LYUBCHENKO, V.M.

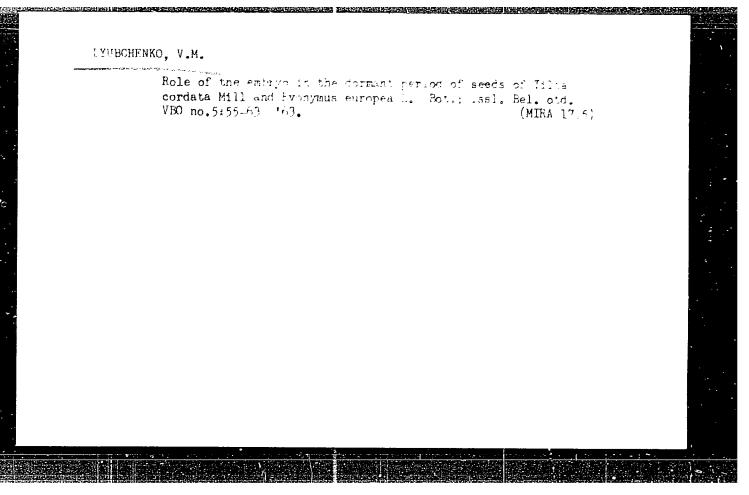
"Presowing treatment of forest—the seeds by exposure to low temperatures" by V.I. Nekrasov. Reviewed by V.M.
Liubchenko. Bot. zhur. 47 no.6:874-875 Je '62. (MIRA 15:7)

1. Belorusskiy nauchno-issledovatel'skiy institut lesnogo khozyaystva, Gomel'.

(Trees)

(Pleats, Effect of temperature on)

(Germination)



ACCESSION NR: AT4033376

\$/2960/63/000/002/0155/0162

AUTHOR: Kiryukhin, B. V.; Lyubchenko, V. V.

TITLE: The problem of the growth of hailstones, taking into account the structure of the vertical velocities in a cloud

SOURCE: Leningrad. Universitet. Problemy* fiziki atmosfery*, no. 2, 1963, 155-162

TOPIC TAGS: meteorology, atmospheric physics, cloud, atmospheric vertical velocity, hail, hailstone, weather modification

ABSTRACT: A study of the processes of hail formation and the development of methods for artificial modification of clouds for prevention of hail requires an understanding of the process of growth of an individual hailstone in a non-stationary field of vertical velocities in a cloud. Various authors have used different methods for computing this process and have obtained different answers, despite departure from almost identical assumptions. A study therefore has been made to compare the results obtained by N. S. Shishkin (Oblaka, osadki, grozovoye elektrichestvo, Moscow, Gostekhizdat, 1954), B. V. Kiryukhin and G. K. Sulakvelidze (Trudy VGI, Vol. II(5), 1961) and others. The paper involves a comparison of the different methods for computing the growth of hailstones in a stationary field of Card 1/2

ACCESSION NR: AT4	033376	المناف المستبيد بيران المماري		
vertical velocities change of velocity of the height read description of this said to involve a	s and a review of the with height. Partic hed in the hailstone s parameter are deeme number of values estition for the height r	growth of hailstones taking ular attention is given to trajectory. The equations of too unwieldy for computated and approximately. The eached in the hailstone traises, entering into the equate author are then compared.	tions and are The author has ajectory and	
cited by Shishkin 41 formulas, 2 fi	gures and 2 tables.	3.		
cited by Shishkin 41 formulas, 2 fi	gures and 2 tables.	3.	•	
cited by Shishkin 41 formulas, 2 fi	gures and 2 tables.	(Leningrad University) DATE ACQ: 23Apr64	ENCL: 00	
cited by Shishkin 41 formulas, 2 fi ASSOCIATION: Len SUBMITTED: 00	gures and 2 tables.	(Leningrad University)		
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	ON NR: AP5005363	f	B/0109/65/010	/002/0385/0387	
AUTHOR:	Belove, N. A.; Ly	ubchenko, V. Ye.; Skvo	rtsova, N. Ye.	46	
TITLE:	Investigation with lifetime of minority	the aid of p-n juncti carriers in heavily	ons of the effect o	f concentration	
		lektronika, v. 10, no.			
	是一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个	property, doped germa		1conductor	
ABSTRAC Rev., 19 Sapacita EQO35(The impu	E: This investigating the state of the junction of the junction of the junction of the state of	on continues the work inority-carrier lifet was calculated from u.C.2 (V), where V is	of D. Meyerhofer e imes in germanium. The diode impedance the applied voltag	t al. (Phys. The diffusion , measured at e, was plotted.	
	recombination by t	For concentrations raps seems to dominate	20 - 30 L (30 L S (2 S)		
SSOCIAT	TÓN; none				
	有可以自己的情况下。1995年第二人的时间的中心电影。1995年				

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FEMTER SERVICES CONTRACTOR OF STREET

ACC NR: AP6019001

SOURCE CODE: UR/0109/66/011/006/1107/1111

AUTHOR: Belova, N. A.; Zil'berman, P. Ye.; Lyubchenko, V. Ye.

ORG: none

TITLE: Impurity distribution in p-n junctions made from heavily doped

zermanium $_{2}$?

SOURCE: Radictekhnika i elektronika, v. 11, no. 6, 1966, 1107-1111

TOPIC TAGS: semiconducting material, semiconductor research, germanium semiconductor, tunnel diode, PN JONCTION

ABSTRACT: The charge capacitance vs. bias curves C(V) of tunnel diodes made from As- and P-heavily-doped Ge were measured. The curves for the tunnel diodes having equal majority-carrier concentrations in n- and p-regions were compared. It was noted that, in As-doped diodes, the parameter V, decreased

Card 1/2

UDC: 621.382.13:621.382.23.011.222

1 (***095-67

ACC NR: AP6019001

with the increase of the diffusion factor D. Explanation: increasing D means also increasing mobility of and more rapid drift of impurities. In another experiment, a constant 1-v bias was applied to p-n junctions in the course of their preparation by the method of impulse welding. This resulted in a partial compensation of the contact field and in slowing down the drift of impurities. The parameter V, for such diodes proved to be higher than that for conventional diodes. Conclusions:

(1) The electric field in the junction region affects the distribution of impurities;

(2) The drift causes a maximum in the distribution of impurities; (3) The drift of impurities can be controlled by application of an external voltage during the alloying process. Orig. art. has: 4 figures and 3 formulas.

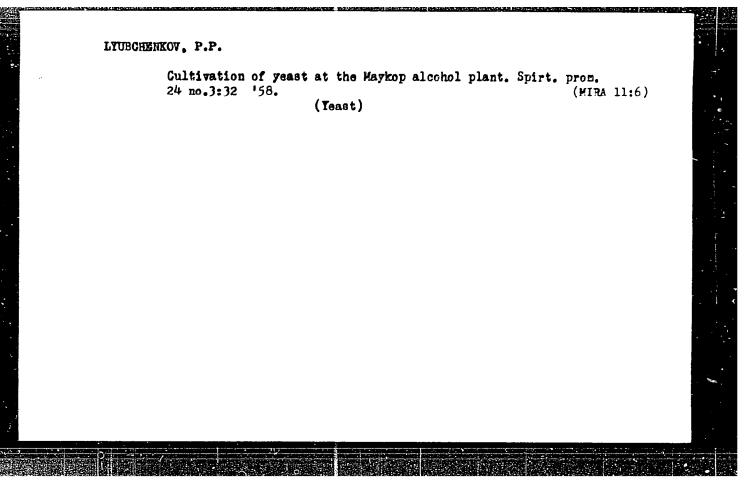
SUB CODE: 09 / SUBM DATE: 03Mar65 / ORIG REF: 010 / OTH REF: 007

Card 2/2 44)

LYUBCHENKO, Yu.G., kul'turtekhnik

Preparatory work and primary tillage of drained land. Sidr. i mel. 14 no.7:59-61 Jl '62. (MIRA 17:2)

1. Meshcherskaya ekspeditelya.



KHRISTICH, V.A.; KHAVKIN, Yu.I.; TKACHUK, Yu.F.; SHEVCHENKO, A.M.; LYUBCHIK, G.N.

Study of the possibility of conversion of the combustion chambers of the LTU-15-800 gas turbine systems to operation on natural gas. Energ. i elektrotekh. prom. no.2:28-32 Ap-Je '63. (MIRA 16:7)

1. Kiyevskiy politekhmicheskiy institut i leningradskiy mashinostroitel'nyy zavod "Ekonomayzer". (Gas turbines)

LYUBCHIK, G. N. and KHRISTICH, V. A. (KPI)

"Certain regularities of development of a diffusion gas tordh, burning in the turbulent wake behind stabilizers."

Report presented at the Section on Physics of Combustion, Scientific Session, Council of Acad. Sci. Ukr SSR on High Temperature Physics, Kiev, 2-4 Apr 1963.

Reported in Teplofizika Vysokikh temperatur, No. 2, Sep-Oct 1963, p. 321, JPRS 24,651. 19 May 1964.

KHRISTICH, V.A., kand.tekhn.nauk; LYUBCHIK, G.N.

Intensification of combustion in diffusor burners. Energ. 1 elektrotekh, prom. no.2:24.26 sp Je '62. (MI:A 15:6)

1. Kiyevskiy politekhnisheskiy institut. (Jas turbines)

L 25032-65 EPA/EPA(e)-2/EWT(m)/EPF(c)/EPR Pr-4/Ps-4/Pt-10 WW/JW/MLK ACCESSION NR: AT5004225 S/0000/64/000/000/0202/0205

AUTHOR: Khristich, V. A.; Lyubchik, G. N.

TITLE; Some relationships for a gaseous diffusion flame burning in the turbulent wake behind a flame holder

SOURCE: AN UKrSSR. Institut tekhnicheskov teplofiziki. Teplofizika i teplotekhnika (Thermophysics and heat engineering). Kiev, Naukova dunka, 1964, 202-206

TOPIC TAGES diffusion flame, air breathing propulsion, flame holder, combustion

ABSTRACT: It has been previously found that diffusional burning behind a flame holder gives very high mixing rates, short flame lengths, and higher combustion efficiencies as compared with conventional diffusion flames. Since the flame length is a function of air velocity, high and variable air excess coefficients can be used, which makes the process suitable for use in turbine combustion chambers and in other processes. The design of such a process presents difficulties because of the lack of experimental data. The process has there-

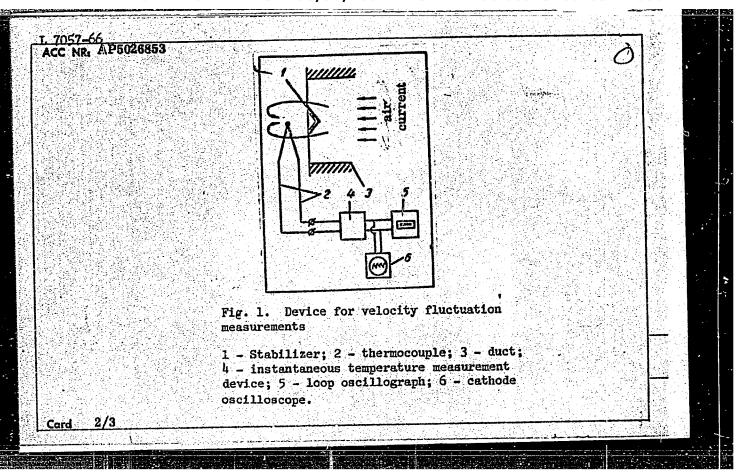
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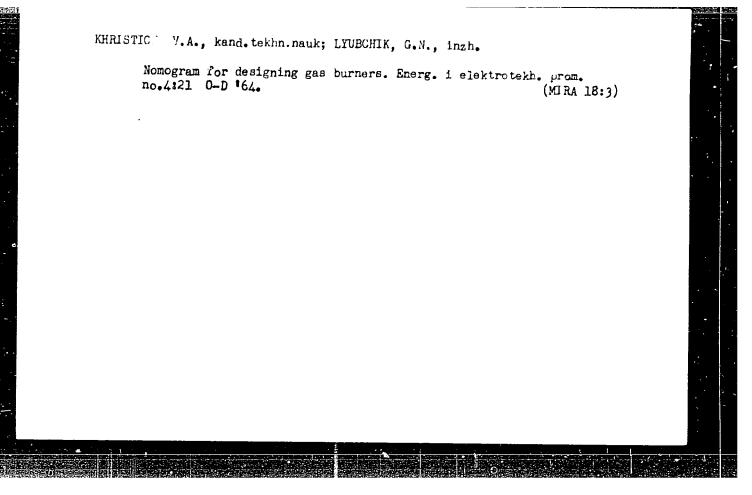
L 25032-65 ACCESSION NR: AT5004225

fore been studied by obtaining velocity and concentration profiles and by flame photography to determine the effect of the following parameters on the flame length: gas discharge velocity (10-210 m/sec) air velocity (10-50 m/sec), diameter of the gas nozzle (1-5 mm), width of the flame holder (20-40 mm), opening angle of the flame holder (10-180°), angle of attack of the airstream (0-24°), and position of the gas jet in the vertical plane (0-180°). The flame length increased with increasing gas velocity, increasing gas nozzle diameter, and increasing flame holder width, and it decreased with increasing air velocity, opening angle of the flame holder, and angle of attack of the airstream. Since the gas jet was deflected by the recirculation zone in the direction of the flame holder apex, i.e., countercurrently to the airstream, the trajectories of the gas jet could be calculated by a method for jets in transverse flow developed by Yu. V. Ivanov. The experimental data were correlated by an empirical equation for the relative length of the flame as a function of the gas and air densities and velocities, the width of the flame holder, and the gas nozzle diameter. It is recommended that more date be obtained over a wider range of operating and geometry parameter be obtained over a wider range of operating and geometry parameters. eters to make the relationship more accurate. Orig. art. has! figures.

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"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001031210002-1 SOURCE CODE: UR/0170/65/009/004/0501/0506 AUTHOR: Bannikov, A. I.; Khristich, V. A.; Lyubchik ORG: Kiev Polytechnic Institute (Politekhnicheskiy institut, Kiev) TITLE: Thermoelectric method for measuring gas flow velocity fluctuation 20 SOURCE: Inzhenerno-fizicheskiy zhurnal, v. 9, no. 4, 1965, 501-506 Œ TOPIC TAGS: gas flow, flow velocity, velocity measuring instrument, flow measurement, ABSTRACT: The theoretical and experimental investigation of combustion and heat exchange processes in fluctuating and turbulent flows indicate that the velocity fluctuations determine decisively the intensity of the processes. However, the existing methods for velocity fluctuation measurements are either incompletely developed or inapplicable to high temperature flows. Consequently, working at the <u>Institute</u> of Engineering Heat Physics of the AN Ukrisk 55 (Institut tekhnicheskoy teplofiziki AN UkrSSR) in cooperation with the Kiev Polytechnic institute (Kiyevskiy politekinicheskiy institut), the authors developed a thermoelectric method permitting determinations within very hot gaseous currents. Experiments with the device, shown in Fig. 1, confirm its reliability and simplicity, and the data obtained are in fair agreement with those obtained using different methods of flow velocity fluctuation determination, Card 1/3 UDC: 537.32+536.587

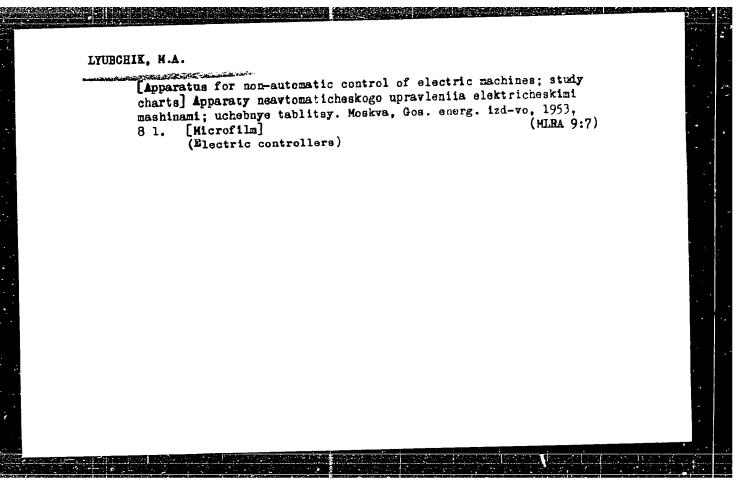


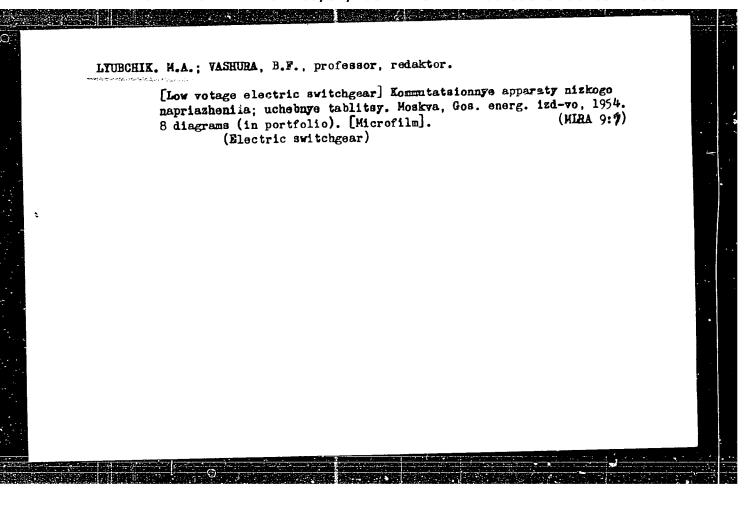


LYUCHIK, M. A R/
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(Apparatus for Automatic Johnfol with Electrical Machinery) Uchetnyye
Tablitay. Leningrad, Gudenerghizdan, 1-52.

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	Calculating the temperature excess in a.c. coils. Izv.vys. ucheb.zav.; elektromekh. 1 no.11:74-77 '58. (MIRA 12:2)			
	l. Kafedra elektricheskikh apparatov Khar'kovskogo politekhniche- skogo instituta.			
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SOV/144-58-10-13/17

AUTHORS: Lyubchik, M.A., Lecturer; Mogilevskiy, G.V., Candidate of Technical Sciences and Khmel'nitskiy, R.S., Engineer

TITLE:

The Design of the Short Circuited Turn on Electro-Magnets with Voltage Coil (Proyektirovaniye korotkozamknu-

togo vitka elektromagnitov s katushkoy napryazheniya)

PERIODICAL: Izvestiya Vysshikh Uchebnykh Zavedeniy, Elektromekhanika, 1958, Nr 10, pp 135-145 (USSR)

ABSTRACT: In single-phase a.c. electro-magnets short circuited

turns are located on the ends of the poles of a magnetic system, as shown in Fig 1, to reduce variations in the tractive force. Because the turn is there the variable force that acts on the armature is always more than a certain minimum value which, to avoid vibration should always be greater than the combined forces due to

the spring and the weight of the armature. Electrical design of the short circuited turn consists in determining its active resistance and the power loss in it,

Previously published design procedures are briefly reviewed. Eq (6) and (7) are then derived for calculation of the turn resistance and power loss

Card 1/6

SOV/144-58-10-13/17

The Design of the Short Circuited Turn on Electro-Magnets with Voltage Coil

respectively. The formulae are valid provided that the iron in the magnetic system is not saturated but because of the screening action of the short circuited turn the magnetic induction in the unscreened part of the pole is considerably increased. This effect may be big enough to make the formulae inapplicable. However, it is shown that with an E-shaped core the short circuited turns are usually placed on the outer poles and because of the phase displacement between fluxes the instant at which the force on the outer poles is a minimum does not coincide with that at which the force in the middle pole is zero, therefore, the minimum force is greater than it otherwise would be and specially accurate analytical calculation of it is not necessary. Experimental verification of the electrical design of a short circuited turn on a relay type RE-2100 showed that the calculation was sufficiently accurate. In order for the magnetic system to work well, allowance must be made for change in the resistance of the ring due to heating, which is very necessary as in some cases the

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APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001031210002-1"

SOV/144-58-10-13/17

The Design of the Short Circuited Turn on Electro-Magnets with Voltage Coil

temperature rise of the ring can be 200 to 250°C. Jnless care is taken the heat generated in the ring may damage neighbouring insulation. Practical methods of constructing the short circuited turns on magnetic systems may be classified into two kinds as illustrated in Fig 1; in one case the screen is located in a slot in the steel and in the other case part of the ring is in air round the outside of the steel. In considering the temperature distribution in the ring it is convenient to consider separately the parts that are in contact with steel only and those that are in contact with air as well. A graph representing the temperature distribution in the short circuited turn is shown in Fig 2 and formulae for the temperature rises in the two sections are given in Eq (12). Actual values of temperature rise are somewhat less in air and higher in steel than the values given by Eq (12) and the extent of the error is next determined. As a result Eq (15) are derived that can be used to determine the temperature

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SOV/144-58-10-13/17

The Design of the Short Circuited Turn on Electro-Magnets with Voltage Coil

rise at any point in the turn including the maximum temperature rise. In practice the part of the turn that is not in steel may be made of increased section to reduce the temperature rise in this case the design procedure is the same but certain correction factors are introduced. When using the procedure for the thermal design of short circuited turns it is necessary to know the appropriate heat transfer coefficients and appropriate values are recommended for particular cases. Further problems in the design of short circuited turns in magnetic systems concern the material and shape of the turn, its location in the magnetic system and the method of fixing it to the pole If the system only works occasionally and without shock the ring may be made up of sheet and may be made removable, see Fig 3a If there are considerable shocks the ring must be firmly fixed in the slot. Proposed methods of fixing are described and illustrated in Fig 3b and c. In equipment where the coil is permanently fixed the screens may be used as a fixing device as shown in Fig 4.

Jard 4/6

207/144-58-10-13/17

The Design of the Short Gircuited Purn on Blectro-Magnets with Voltage Coil

magnetic system has three legs the short circuited urns are usually installed on the outer legs for better cooling, though this gives some difficulties in making secure fixings, because the outer legs are smaller in cross-section than the central ones. Various methods of fixing the screen in the slot are illustrated in Fig 5. When the equipment is required to have a very long life the screens may be a weak link the main cause of failure being fatigue stresses caused by repeated impact of the magnetic system. To increase the mechanical strength of the screen, besides using strong materials of adequate size it is advisable firmly to secure overhanging parts of the screen and recommended procedures are illustrated in Fig 6 and briefly described. Spring dampers are sometimes used to reduce impact shocks, see Fig 7. Sometimes arrangements are made to fit the screen at a place which is not subject to impact shocks, see Fig 8 A numerical example of

Card 5/6

SOV/144-58-10-13/17

The Design of the Short Circuited Purn on Electro-Magnets with Voltage Coil

screen design is given in an appendix. There are 8 figures and 6 Soviet references.

ASSOCIATION: Kafedra Elektricheskikh Apparatov Khar'kovskogo
Politek micheskogo Instituta (Chair of Electrical
Apparatus, Khar'kov Polytechnical Institute)
(Lyubchik, Mogilevskiy) Khar'kovskiy elektrymekhanicheskiy
zavod (Khar'kov Electromechanical Plant) (Kymel'nitskiy)

31st October, 1958 SUBMITTED:

Card 6/6

CIA-RDP86-00513R001031210002-1" APPROVED FOR RELEASE: 08/31/2001

SOV/144-58-11-7/17

AUTHOR: Lyubchik, M. A. (Lecturer)

TITLE: Calculation of Temperature Rise in A.C. Coils (K rascheuu

prevysheniya temperatury katushek peremennogo toka)

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Elektromekhanika, 1958, Nr 11, pp 74-77 (USSR)

The temperature rise in an a.c. coil will obviously depend directly on the power consumed in the coil, and inversely on the total cooling surface; the author quotes the following formula by Roters (Ref 1) and Stupel' (Ref 2):

$$\theta = \frac{P}{\mu S}$$

is coil temperature rise above that of its surroundings in the steady state; P is the power consumed ir. the coils in watts; S is the cooling surface of the coil in cm; is an empirical coefficient whose value is taken (Ref 2) as $10^{-3}~\text{W/cm}^2~^{\text{O}}\text{C}$. The significance of μ with respect to the various contributions to P and S is discussed critically

Card 1/3

SOV/144-58-11-7/17

Calculation of Temperature Rise in A.C. Coils

and in some detail. Thus P may include in addition to ohmic loss, any dielectric and inductive losses in the coil; S may include the internal, external and end areas of the coil. The effectiveness of the cooling must, however, vary as between the inner and outer surfaces of the coil; similarly the various contributions to P cannot be completely specified without reference to the load factor, coil-former and general circuit parameters. All these considerations show that the coefficient μ must be highly specific to any particular coil and its operating conditions. Furthermore, since, even in the steady state, temperature gradients exist within the coil itself Θ can at best signify only some sort of mean temperature. Calculated and measured data are presented in tabular and graphical form for three different coils. Maximum and mean temperature rises were measured and compared with those calculated on the basis of various different assumptions about the terms contributing to S and P Measured temperature contours are also displayed and from these it is apparent that 10-degree temperature differences can exist within the same coil. The same order of uncertainty, namely $\pm 5^{\circ}$ C, attaches to the use of a constant "mean" value

Card 2/3

SOV/144-58-11-7/17

Calculation of Temperature Rise in A.C. Coils

of μ in applying the above formula to different coils under a variety of loading conditions. Thus, if something more accurate than an order-of-magnitude estimate of $\boldsymbol{\theta}$ is required the coefficient μ must be separately determined for each load condition of each coil. The paper contain 1 table, 2 figures and 3 Soviet references.

ASSOCIATION: Kafedra elektricheskikh apparatov Khar'kovskogo politekhnicheskogo instituta (Chair of Electrical Apparatus, Khar'-kov Polytechnical Institute)

SUBMITTED: October 31, 1958.

Card 3/3

8(2)

PHASE I BOOK EXPLOITATION

SOV/3159

Lyubchik, Mikhail Abramovich

- Raschet i proyektirovaniye elektromagnitov postoyannogo i peremennogo toka (Calculation and Design of DC and AC Electromagnets) Moscow, Gosenergoizdat, 1959. 223 p. Errata slip inserted. 9,000 copies printed.
- Ed. (Title page): B. F. Vashury, Professor; Ed. (Inside book): Yu. P. Ustinova; Tech. Ed.: G. Ye. Larionov.
- PURPOSE: The book is intended for engineers and technicians engaged in the automation of production processes and the design of special types of electromagnets. It may also be used by students of electrical engineering in schools of higher education and in tekhnikums.
- COVERAGE: The author analyzes methods of preliminary calculation and design of d-c and a-c electromagnets which are used in various instruments for automatic control and protection. In analyzing the processes characterizing the operation of electromagnets, the author in some cases uses mathematical analysis which

Card 1/5

Calculation and Design (Cont.) SOV/315	59	
may appear somewhat complicated; however, the final for and recommendations are reduced to a simple form and mossible to solve a number of practical problems by enmethods and to analyze, for design purposes, the effectividual parameters on the basic technical and economiteristics of electromagnets. There are 41 bibliographences; 24 Soviet, 7 German, 5 English, 4 Czech and 1 F	make it ngineering et of in- ic charac- nic refer-	
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SOV/144-59-12-14/21 Baru, I.I., Candidate of Technical Sciences. Dotsent. AUTHORS: Vashura, B.F. Doctor of Technical Sciences, Professor, Lvubchik, M.A. Motion of the Armature of an Alternating Current TITLE: Electro-Magnet // PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniv Elektromekhanika, 1959, Nr. 12, $_{14}$ 127-134 (USSR) Experimental observations of the forces exerted by ABSTRACT: a.c. electro-magnets depend very much on the test procedure For a given air-gap. "pull-in" and "pull-out" tests give different results mainly as a result of armature vibration. The motion of the armature dejends on the force developed by the electro-magnet and the counter-acting force. A certain voltage is required to ensure that the armature juils in smoothly without vibrating on the stop. The present article derives approximate relationships for the motion of the armature near the stop, it relates to an E-shaped system with one voltage coil. The assumptions made are stated. The equations for the electro-magnetic forces are given by Eq (1). Introducing the torque applied to the centre pole Card 1/3

SOV/144-59-12-14/21 Motion of the Armature of an Alternating Current Electro-Magnet

and equating it to the resultant torque of all poles Eq (2) is obtained, this is equated to the counter-torque produced by the load. Motion of the armature near the stop is examined during smooth change of the voltage arplied to the coil. Graphs of the changes in the referred force as a function of time for various values of voltage are plotted in Fig 2. Motion of the armature is then considered for different values of voltage. The first is so low that the armature does not move and the second is the limiting case where the torce and counter-force are equal and the armature still does not move. Fig 4 relates to these two cases. Finally there is the circumstance of a further slight increase of voltage that permits vibration indicated in Fig 5. This case is considered in somewhat more detail, noting the various kinds of vibration that may occur. Attention is taken liven to the lowest voltage at which the armature julis in smoothly without vibration and to the still higher voltage at which the armature still julls in without bouncing but more rapidly. After thus studying the thysics of the process of armature motion, the equations of motion are derived.

Card 2/3

\$60V/144-59-12-14/21 Motion of the Armature of an Alternating Current Electro-Magnet

The instantaneous value of the resultant force is given by Eq (3) and the constants of integration are derived from the initial conditions. Eq (7) and (10) give the speed and position of the armature as functions of time. By substitution of the appropriate conditions into Eq (10), expressions can be derived for vibration of the armature on the stop. It is shown that vibration occurs on pull-in when the force applied to the centre pole is 65% of the amplitude of the electromagnetic force, on pulling-out this ratio would be 0.35. The formulae derived are tased on referred forces and so can be applied to any configuration of a.c. magnet system. They may also be used to determine the changes in armature position and speed as function of time. There are 12 figures.

ASSOCIATION: Khar'kovskiy politekhnicheskiy institut (Khar'kov Polytechnical Institute)

SUBMITTED: September 13 1959

Card 3/3

S/032/60/026/05/39/063 B010/B008

AUTHORS: Lyubchik, M. A., Trusov, L. P., Shur, D. M.

TITLE: Device for Programmed Tests of Heat-resistant Materials for Creep Strength

PERIODICAL: Zavodskaya laboratoriya, 1960, Vol. 26, No. 5, pp. 615-616

TEXT: A device (Fig. 1, Scheme) for programmed tests of heat-resistant materials for creep strength at changing temperature— and load conditions is described. The device is designed on the basis of a unit of the mass-produced machine of the TsNIIMASh design of type IP-4M. The individual technical data are mentioned. The electric circuit was worked out by technical data are mentioned. The electric circuit was worked out by technical data are mentioned. The electric furnace according to Machine) is heated automatically by an electric furnace according to the program, and can also be cooled by compressed air. Loading is done the program, and can also be cooled by compressed air. Loading is done the experiment is done by an apparatus of type KEP-12/61. The 8 contacts are connected in series to an RPT-100 relay. The programming of the

Card 1/2

Device for Programmed Tests of Heatresistant Materials for Creep Strength s/032/60/026/05/39/06; B010/B008

temperature change is carried out by a differential circuit, an EPD-12 potentiometer being used as a regulation device, and is controlled by a self-recording instrument of type EPP-09 The loading mechanism is directed by means of automatically operating switches. A thermogram (Fig. 2) obtained with the instrument described is mentioned. There are 2 figures.

Card 2/2

9,2120 (1147,1331,1482)

29384 \$/196/61/000/008/024/026 E194/E155

AUTHOR 8

Lyubchik. M.A.

TITLE

Calculation of the temperature distribution in the coils of electrical devices

PERIODICAL: Referativnyy zhurnal, Elektrotekhnika i energetika, no.8, 1961, 17, abstract 8198. (Tr. Khar'kovsk. politekhn. in-ta, 1960, 30, No.1, 73-87)

TEXT: The problem of determining the temperature distribution in the body of a winding is solved by assuming the point of maximum temperature to be either in the central zone of the winding or on its inner surface. Solution of the general differential equation for temperature \hat{V} for steady-state heating of the winding is given in the form of a double infinite series

 $\mathcal{F} = \mathcal{F}_{i} + \sum_{i=1}^{00} \sum_{j=1}^{00} B_{ij} \sin P_{i} \times \cos S_{j} y,$

where: $\hat{\mathcal{J}}_{\Pi}$ is the given temperature of the outer surface; Card 1/2

Calculation of the temperature ... S/196/61/000/008/024/026 E194/E155

Bij, P and Sj are constants which it is required to find.

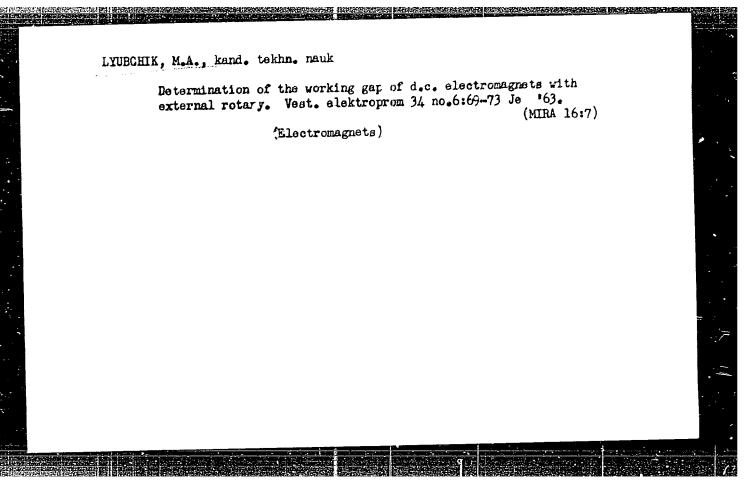
Because the series is highly convergent, only the first term is used in the final formulae. An example is given of calculation is heating of an experimental coil which was fitted with thermocouples; the isotherms obtained with them are plotted. The error of calculation was not greater than 10%.

In all instructions, 10 literature references.

[Abstractor's note; Complete translation.]

LYUBCHIK, M. A.

Cand Tech Sci - (diss) "Theory of the estimation and design of electromagnets in contact-relay apparatus in connection with the determining dimension and conditions of heating junctions." Khar'kov, 1961. 21 pp; (Ministry of Higher and Secondary Specialist Education Ukrainian SSR, Khar'kov Polytechnic Inst imeni V. I. Lenin); 150 copies; free; list of author's works at end of text; (KL, 7-61 sup, 240)



LYUBCHIK, M.A., kand.tekhn.nauk

Experimental determination of the equivalent heat transmission coefficient of coil windings of electrical devices. Energ. i elektrotekh. prom. no.3:16-19 Jl-S '63. (MIRA 16:10)

1. Khar'kovskiy politekhnicheskiy institut.

ACC NR: AP7001192 (A) SOURCE CODE: UR/0407/65/000/05-/0023/0026
AUTHOR: Fursov, S. P. (Kishinev); Lyubchik, M. Ya. (Kishinev); Fiks, M. S. (Kishinev)

ORG: none

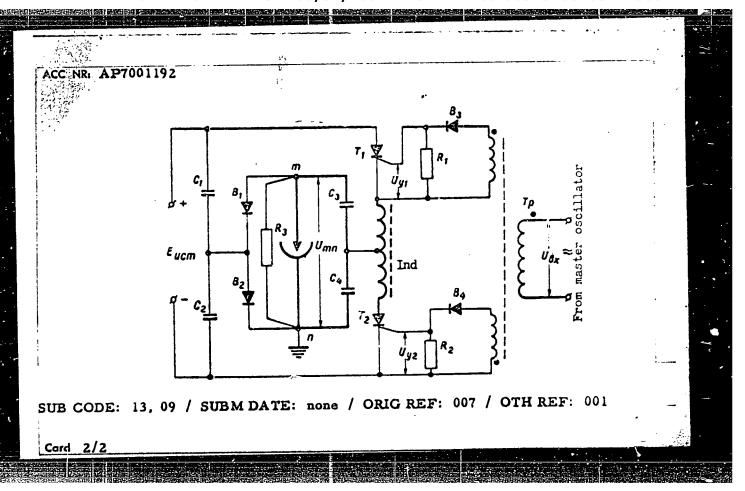
TITLE: Thyristorized power source for electrospack-machining purposes

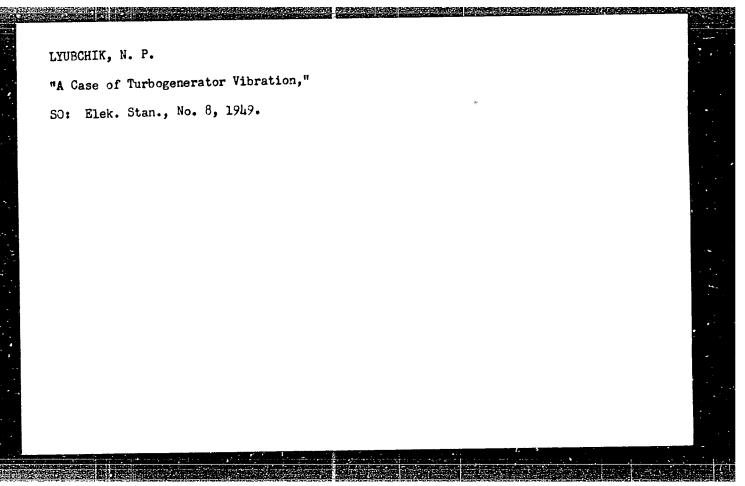
SOURCE: Elektronnaya obrabotka materialov, no. 5-6, 1965, 23-26

TOPIC TAGS: electric power source, power supply, electrospark machining, thyristor,

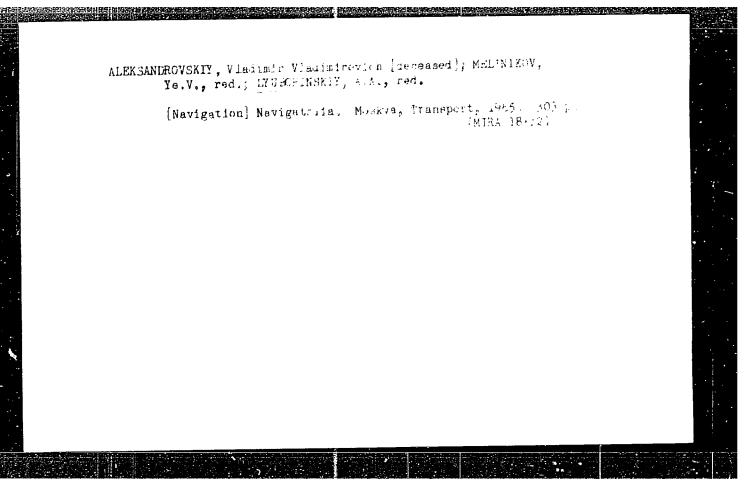
ABSTRACT: Connected with some modern European electrospark-machining developments (Draht, 1963, 14, 12, 797-802), a simple pulse generator is suggested, in which the discharge pulses bypass semiconductor devices (see the discharge circuit in heavy lines in the figure). The generator is actually a series-type inverter formed by capacitors C, C₂, inductor Ind, and thyristors T, T₂. The inverter is loaded with a bridge circuit consisting of storage capacitors C₃ C₄ and diodes B, B₂. The work sparkgap shunted by a kohm-range resistor R₃ is connected diagonally to the bridge. The generator converts d-c energy into homopolar pulses whose rate is equal to the double frequency of the master oscillator used for driving. An experimental hookup was tested at a rate of 800 pulses per sec with a d-c voltage of 150 v and a load resistance of 350 ohms. Principal characteristics (V-I, no-load voltage vs. rate, short-circuit current vs. rate) are shown; highest attainable pulse rate, 2000. Orig. art. has: 6 figures and 1 formula.

Card 1/2





1.; Kuz'minskiy, A. S. 44 s 39, No. 172483	20 B
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znakov, no. 13, 1965, 69	
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LYUECHINSKIY, E.B.; PINES, L.P.

Kinesimetric indices of the Achilles tendon refler in relation to age. Zhur. nevr. i psikh. 64 no.3:331-333 '64.

(MIRA 17:5)

1. Kafedra nervnykh bolezney (zaveduyushchiy - prof. E.I. Yeselevich) Orenburgskogo meditsinskogo instituta.

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L 39701-66 CD-2 ACC Nr. AR6008707 SOURCE CODE: UR/0273/65/000/010/0008/0008 FUTHOR: Lyubechanskiy, I. F. TITLE: Determination of ranges for changes in valve motion curves and the gas distritution phases under the effect of a controlling mechanism SOURCE: Ref. zh. Dvigatell vnutrennego sgoraniya, Abs. 10.39.57 FEF SOURCE: Tr. Tashkentsk. politekhn. in-ta, vyp. 24, 1963, 290-301 TOPIC TAGS: piston engine, engine component, valve, nonelectric regulator ABSTRACT: Valve motion curves, plotted for the gas distribution in the 965-7 'Zaporozheta" automobile engine with a controlling mechanism, ere given. The valve motion curves are plotted for three positions of the controlling device. All the intermediate positions will guide the motion according to the curves situated in the region limited by curves. Changes in cam shaft center of the notion were not discusmed . The suggested controlling mechanism will permit considerable changes in the rules for valve motion. SUB CODE: 10/ SUBM DATE: none UDC: 621.432-33

ENT(d)/ENT(m)/ENP(f)/T WE L 山719-66 UR/0273/65/000/010/0009/0009 SOURCE CODE: (A)ACC NR: AR6008708 AUTHOR: Lyubechanskiy, I. F. TITLE: A rocker-roller drive for gas distribution in an internal combustion engine SOURCE: Ref. zh. Dvigateli vnutrennego sgoraniya, Abs. 10.39.63 REF SOURCE: Tr. Tashkentsk. politekhn. in-ta, vyp. 24, 1964, 302-306 TOPIC TAGS: internal combustion engine, fuel control, internal combustion engine ABSTRACT: Gas distribution phases in operating GAZ-21 and KhTZ-B7 engines is accomplished by means of rocker-cam mechanisms which may be used in commercial engines both for selecting optimum constant phases of gas distribution and for optimum motor control under variable speed conditions. A rocker-roller valve drive in which the drive link is a roller instead of the camshaft has been developed to combine the cam mechanism, roller and flat tappet in the gas distribution control mechanism. The author gives a diagram of the rocker-roller gas distribution mechanism and points out the feasibility of using it. [Translation of abstract] SUB CODE: 21 UDC: 621.432-3 | Card 1/1

